

# ADHESIVE STRIP FOR SUSPENSION

## BACKGROUND OF THE INVENTION

### 1. Field of the Invention

The present invention relates to an adhesive strip, and more particularly to an adhesive strip for use on flat upright surfaces to detachably suspend objects in a conventional way.

### 2. Description of Related Art

To decorate an area, display a collection or store items, people usually suspend objects such as clocks, paintings, ornaments or remote controls on walls or other upright surfaces. Basically, three types of suspension means are used to secure objects on desired places.

#### 1. Hooks or nails:

The most conventional way to hang items is attaching hooks or nails on the flat surfaces and hang the item with a hook, a hole or an eye on the attached hooks or nails. However, attaching hooks to and nailing nails into the surface is troublesome and inevitably destroys the smooth surface. Additionally, the objects suspended on the hooks or nails must have a lip, hook, eye or hanger wire to correspond to the hooks or nails.

#### 2. Glue or tape:

Using glue or tape to stick objects on flat surfaces is more convenient than nailing. However once attached, the objects cannot be readily detached from the flat surface. Therefore, using glue or adhesive tape is not suitable for objects used or changed often.

#### 3. Baskets or racks:

Although objects can be readily removed from the baskets or racks, attaching

1 the baskets and racks to the surface is also troublesome. Besides, baskets or racks are an  
2 additional expense for decoration and waste more space in rooms.

3 To obviate or mitigate the problems with the conventional means of suspending  
4 objects on upright surfaces, the present invention provides an adhesive strip that is  
5 convenient to use and makes detaching the suspended objects easy.

#### 6 SUMMARY OF THE INVENTION

7 The main objective of the invention is to provide an adhesive strip that has a  
8 simple structure and is convenient to use.

9 Other advantages and novel features of the invention will become more apparent  
10 from the following detailed description when taken in conjunction with the  
11 accompanying drawings.

#### 12 BRIEF DESCRIPTION OF THE DRAWINGS

13 Fig. 1 is a perspective view of an adhesive strip for suspension in accordance  
14 with the present invention;

15 Fig. 2 is an enlarged cross sectional side plan view of the adhesive strip along  
16 part of line 2-2 in Fig. 1;

17 Fig. 3 is an operational perspective view of the adhesive strip in Fig. 1 used with  
18 a remote control;

19 Fig. 4 is a cross sectional side plan view of the adhesive strip along line 4-4 in  
20 Fig. 3;

21 Fig. 5 is a perspective view of one embodiment of the adhesive strip, wherein the  
22 adhesive strip has fins formed in parallel with a short edge;

23 Fig. 6 is a cross sectional side plan view of one embodiment of the fins the  
24 adhesive strip in accordance with the present invention, wherein each fin have an

1 enlarged head;

2 Fig. 7 is a cross sectional side plan view of another embodiment of the fins the  
3 adhesive strip in accordance with the present invention, wherein each fin have a cap-  
4 head; and

5 Fig. 8 is a cross sectional side plan view of another embodiment of the fins the  
6 adhesive strip in accordance with the present invention, wherein each fin has a saw-  
7 toothed contact face.

#### 8 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

9 With reference to Figs.1 and 2 an adhesive strip (10) for suspension in  
10 accordance with the present invention is comprises a base plate (11), multiple fins (12),  
11 an adhesive layer (13) and a protective layer (14).

12 The base plate (11) has a long side and a short side and is made of flexible  
13 material such as rubber or plastic so that the base plate (11) can be cut into pieces of  
14 desired sizes when used. The base plate (11) is also selectively molded in different  
15 shapes and different colors to enhance the attractiveness of the adhesive strip (10).

16 The fins (12) are formed in parallel with the long side of the base plate (11) and  
17 are formed integrally from the base plate (11). Each fin (12) has a rough contact face  
18 (122) formed on an inner face of the fin (12), and all fins (12) are inclined in parallel in a  
19 single direction at a specific included angle ( $\alpha$ ) with the base plate (11), wherein the  
20 included angle ( $\alpha$ ) is less than  $90^\circ$ . The included angle ( $\alpha$ ) of the embodiment shown in  
21 Figs. 1 and 2 is  $30^\circ$ .

22 The adhesive layer (13) is made of glue or double sided tape and is attached to  
23 the side of the base plate (11) opposite to the fins (12) so that the adhesive strip (10) can  
24 attach to flat surfaces. Additionally, the protective layer (14) covers the adhesive layer

1 (13) before the adhesive strip (10) is used to prevent the adhesive strip (10) from sticking  
2 to other objects. Moreover, the protective layer (14) is easily separated from the adhesive  
3 layer (13) to make the adhesive strip convenient to use.

4 With reference to Figs. 3 and 4, objects with which the adhesive strip (10) are  
5 used have a front and a back with a flat surface on the back. When the adhesive strip (10)  
6 is used, two pieces of the adhesive strip (10A, 10A') are needed to engage each other. A  
7 first adhesive strip (10A) of a proper length is attached to a wall or other vertical surface  
8 with first fins (12A) on the first adhesive strip (10A) directed upward. A second  
9 adhesive strip (10A') of a proper length is attached to the back of an object to be hung up  
10 such as a remote control (50), wherein second fins (12A') on the second adhesive strip  
11 (10A') are directed downward. Therefore, the first adhesive strip (10A) and the second  
12 adhesive strip (10A') can engage each other by hooking the first fins (12A) and the  
13 second fins (12A') together. Then, a person can readily remove the remote control (50)  
14 from the wall easily by separating the second fins (12A') from the first fins (12A) when  
15 lifting up the remote control (50).

16 With reference to Figs. 5-8, the arrangement and structure of the fins (12) of the  
17 adhesive strip (10) can be changed to improve the versatility of the strip (10) and the  
18 holding power of the fins (12). With reference to Fig. 5, another embodiment of the  
19 adhesive strip (10B) has the fins (12B) formed in parallel with the short edge of adhesive  
20 strip (10B). This would allow a user to vary the height of the object on the vertical  
21 surface.

22 With reference to Fig. 6, another embodiment of the adhesive strip (10) has an  
23 enlarged head (124) formed on the distal end of each fin (12C). The shape of the  
24 enlarged head (124) is complementary to a corresponding fin (12C') of the

1 corresponding adhesive strip (10C') so that the paired adhesive strips (10C, 10C') have  
2 excellent holding efficiency to each other.

3 With reference to Fig. 7, each fin (12D) of another embodiment of the adhesive  
4 strip (10) has an enlarged cap-head (126) formed on the distal end of each fin (12D). The  
5 enlarged cap-head (126) will hook with a corresponding cap-head fin (12D') on the  
6 corresponding adhesive strip (10D'). The cap-head (126) of the fin (12D) provides an  
7 excellent holding effect to the paired adhesive strips (10D, 10D') because of a straight  
8 blocking surface (127) and that the adhesive strip (10D) has a large included angle ( $\beta$ ,  
9  $90^\circ$ ) between each fin (12D) and the base plate (11).

10 With reference to Fig. 8, each fin (12E) of another embodiment of the strip (10)  
11 has a saw-toothed contact face (128) and is complementary to a respective fin (12E') of  
12 a corresponding adhesive strip (10E'). The toothed contact face (128) also enhances the  
13 holding efficiency of the paired adhesive strips (10E, 10E').

14 The adhesive strip in accordance with the present invention has a simplified  
15 structure as described. Even though numerous characteristics and advantages of the  
16 present invention have been set forth in the foregoing description, together with details  
17 of the structure and function of the invention, the disclosure is illustrative only, and  
18 changes may be made in detail, especially in matters of shape, size, and arrangement of  
19 parts within the principles of the invention to the full extent indicated by the broad  
20 general meaning of the terms in which the appended claims are expressed.